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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for the

RIO GRANDE DRAINAGE BASIN

February 1, 1942

Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

February 10, 1942

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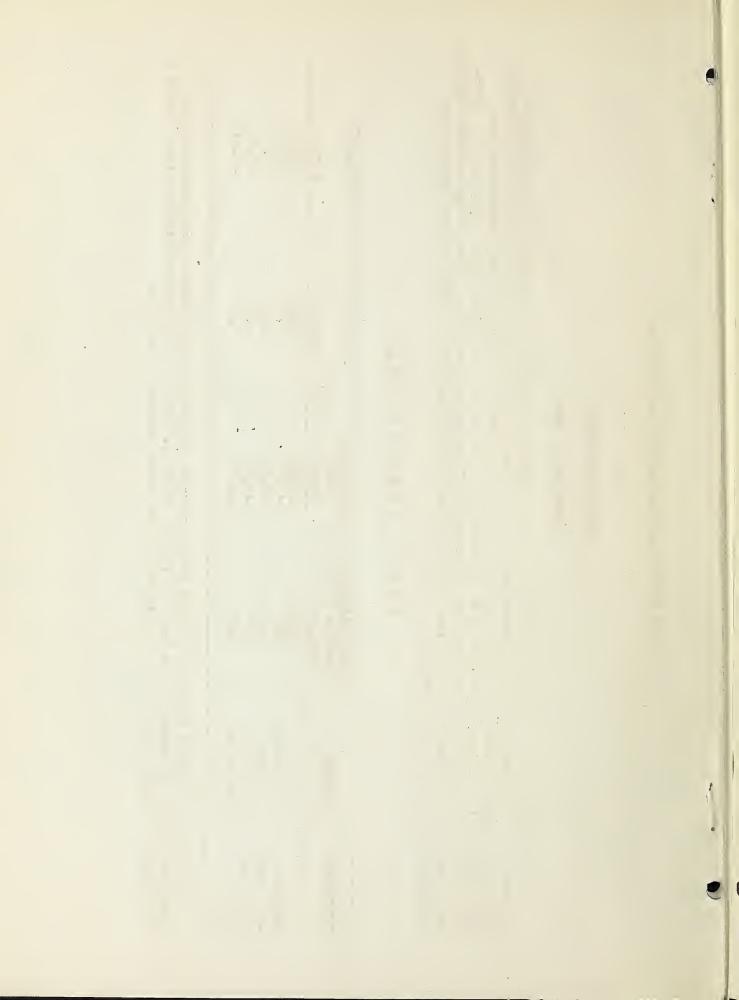
February 1, 1942

wise conducted cooperatively with the State Engineers of Colorado and New Mexico, Colorado Agricultural Experithe Division of Irrigation, Soil Conservation Service of the U. S. Department of Agriculture, in cooperation principally by field personnel of the U. S. Forest Service and Colorado State Engineer. This work is otherment Station, and various municipalities, irrigation associations and others. Precipitation records are The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by with other Federal Bureaus, State Departments, and local organizations. The snow measurements are made supplied by the U. S. Weather Bureau.

PRECIPITATION DATA

	A CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED				
		Precipitation	Departure	Precipitation	Departure
WATERSHID	STATE	October 1 to	from		from
		January 31	Normal	January	Normal
		Inches	Inches	Inches	Inches
Canadian	New Wexico	4-12	+1.35	0.11	10.24
Rio Grande	001.orado	2.29	-0-12	0.63	-0.56
Rio Grande	New Mexico	5.79	41.61	0.31	89.0-
Pecos	New Wexico	14.97	-\$5°00	0.19	-0.33

headwaters of the Rio Grande in the San Luis Valley, Colorado. The accumulated precipitation since October 1 Precipitation during January was below normal over the watershed of the Canadian, Rio Grande and the over these watersheds was, however, considerably above normal except in Colorado.



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DATA WITH THAT SUMLARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF PREVIOUS YEARS BY WATERSHEDS

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now Depth	Six Year 1941 1942 Ya Avg.*	In. 19.3 7.8
WATERSHEDS		Rio Grande 25.8 37.3 Genadian River 14.0 22.8

MATTER SUPPLY OUTLOOK

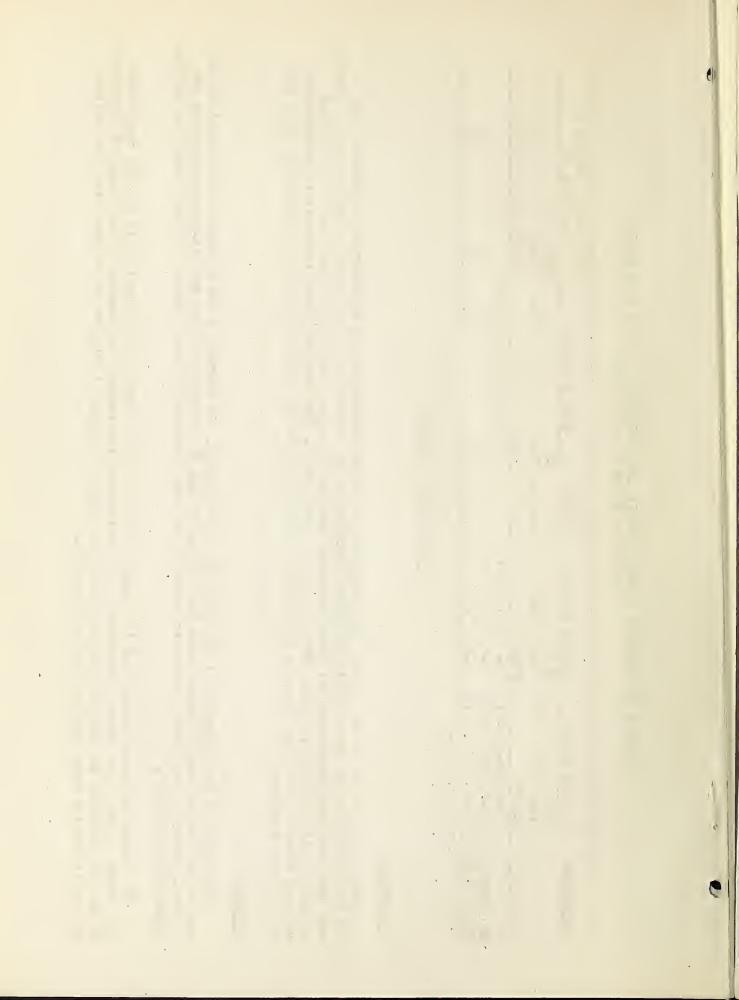
Rio Grande

New Mexico as shown by measurements on 21 snow courses, is 51 percent less than it was a year ago and 27 percent full and there is over four times as much water in storage in the El Vado reservoir on the Chame as there was saturated soil conditions, stream flows are still above normal. The Elephant Butte reservoir is practically Because of excess precipitation early in the winter and The water content of the snow on the watershed of the Rio Grande and its tributaries in Colorado and less than the six-year average for these courses. at this time last year.

Canadian

courses. There is considerable moisture stored in the soil from early winter storms, but there was some surface Snow cover on the watershed of the Canadian is very light. On February 1 the average water content of the snow on two courses was 58 percent less than a year ago and 37 percent less than the six-year average for the drying during January.

this summer unless heavy snows occur during the remainder of the season, but because of the excellent condition The present indications are that the runoff from snow in New Mexico and Colorado will be less than normal of the soil moisture and the unprecedented amount of water in storage in reservoirs at this time the outlook for the irrigation water supply is still favorable.



-3-RIO GRANDE WATERSHED

Summary of Federal and State Cooperative Snow Surveys Issued February 10, 1942, at Fort Collins Colo

			Issued	1 February 10, 1942	, at Fort	Collins.	Colo.					
	Main Drainage	Local		Location	1	Elev	Tational .	ار د	C 20 0 10 10 10 10 10 10 10 10 10 10 10 10	1		-
	and	Drainage	State	Loc	Descrip-		Forest	1 5 C		GI.	sure	nts
No	No. Snow Course) -)	• 8	٦ <u> </u>	AV. Wat	Con	ontent
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